Honeywell Docket No. 30-4785 (4780)

Bingham Docket No.: 7210032001-3221000

## IN THE CLAIMS

- 1. (Currently Amended) A layered low dielectric constant nanoporous material comprising:
  - a first polymer layer on the surface of a substrate;
  - a second layer that comprises a nanoporous material and <u>is</u> on the surface of the first layer; and
  - a first an additional polymer layer at least partially on the surface of the second layer and at least partially infiltrating the pores of the second layer, wherein the infiltrating layer structural strength of the layered material increases by at least 100% reinforces the strength of the underlying nanoporous material by coating the surfaces containing the pores.
- 2. (Original) The material of claim 1, wherein the low dielectric constant material has a dielectric constant no more than 2.5.
- 3. (Currently Amended) The material of claim 1, wherein the first <u>polymer</u> layer <u>is</u> substantially comprises a nanoporous material.
- 4. (Currently Amended) The material of claim § 1, wherein the polymer of the first polymer layer is organic.
- 5. (Original) The material of claim 4, wherein the polymer comprises polyarylene ether.

Claims 6-8: Canceled.

- 10. (Original) The material of claim 1, wherein the second layer substantially comprises a nanoporous polymer.
- 11. (Original) The material of claim 10, wherein the polymer comprises at least one of a polyarylene ether or an adamantane-based compound.
- 12. (Currently Amended) The material of claim 1, wherein the additional layer comprises an organic compound polymer.

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13. (Original) The material of claim 12, wherein the organic compound substantially comprises at least one of a polyarylene ether or an adamantane-based compound.

14. (Original) The material of claim 1, wherein the nanoporous material comprises-voids

pores having a mean diameter of less than 100 nanometers.

15. (Original) The material of claim 1, further comprising a layer of metal wire between the

substrate and the first layer.

Claim 16: Canceled.

17. (Original) The material of claim 15, wherein the metal wire is aluminum or copper.

Claims 18-33: Canceled.

34. (Previously Presented) The material of claim 3, wherein the nanoporous material of at

least one of the first layer or the second layer comprises an adamantane-based compound.

35. (Previously Presented) The material of claim 3, wherein the nanoporous material of the

first layer comprises a first material and the nanoporous material of the second layer

comprises a second material.

36. (Previously Presented) The material of claim 35, wherein the first material and the

second material each comprise a polymer.

Claims 37-39: Canceled.

40. (Previously Presented) The material of claim 36, wherein the first material comprises an

organic polymer and the second material comprises an inorganic polymer.

41. (Previously Presented) The material of claim 36, wherein the first material comprises an

inorganic polymer and the second material comprises an organic polymer.

Claims 42-43: Canceled.

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